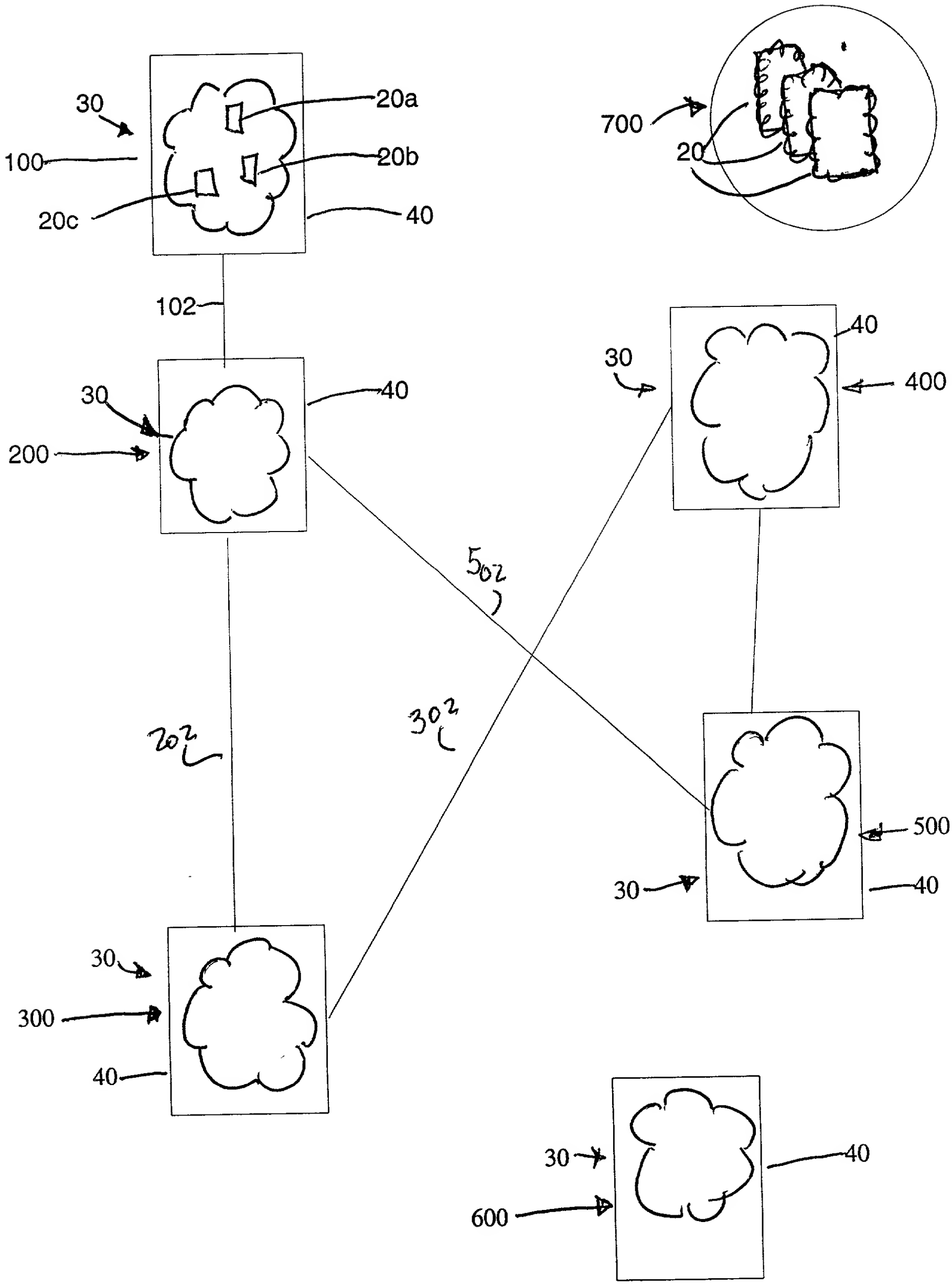
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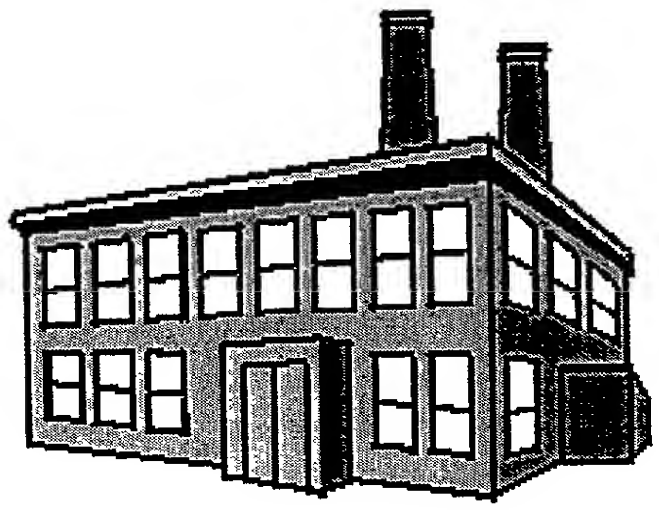
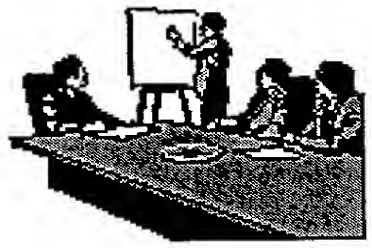
FIGURE 1





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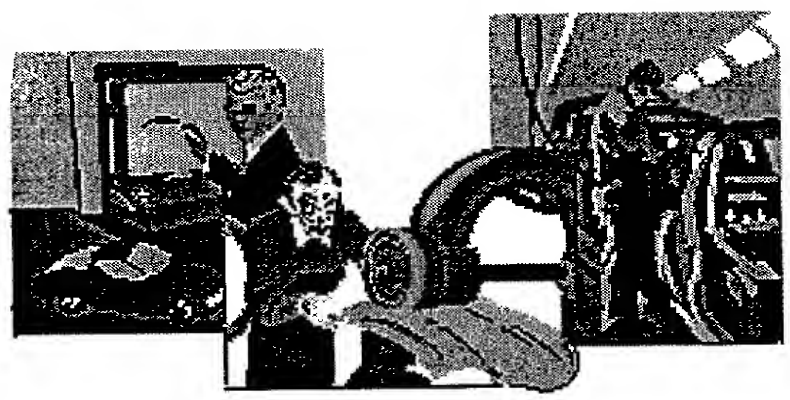

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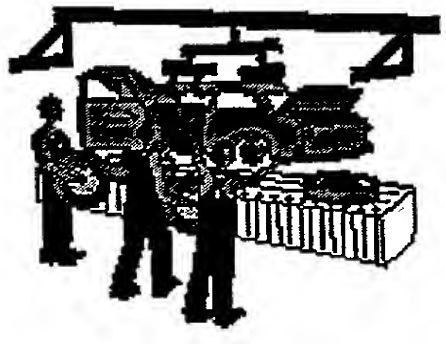

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FIGURE 2

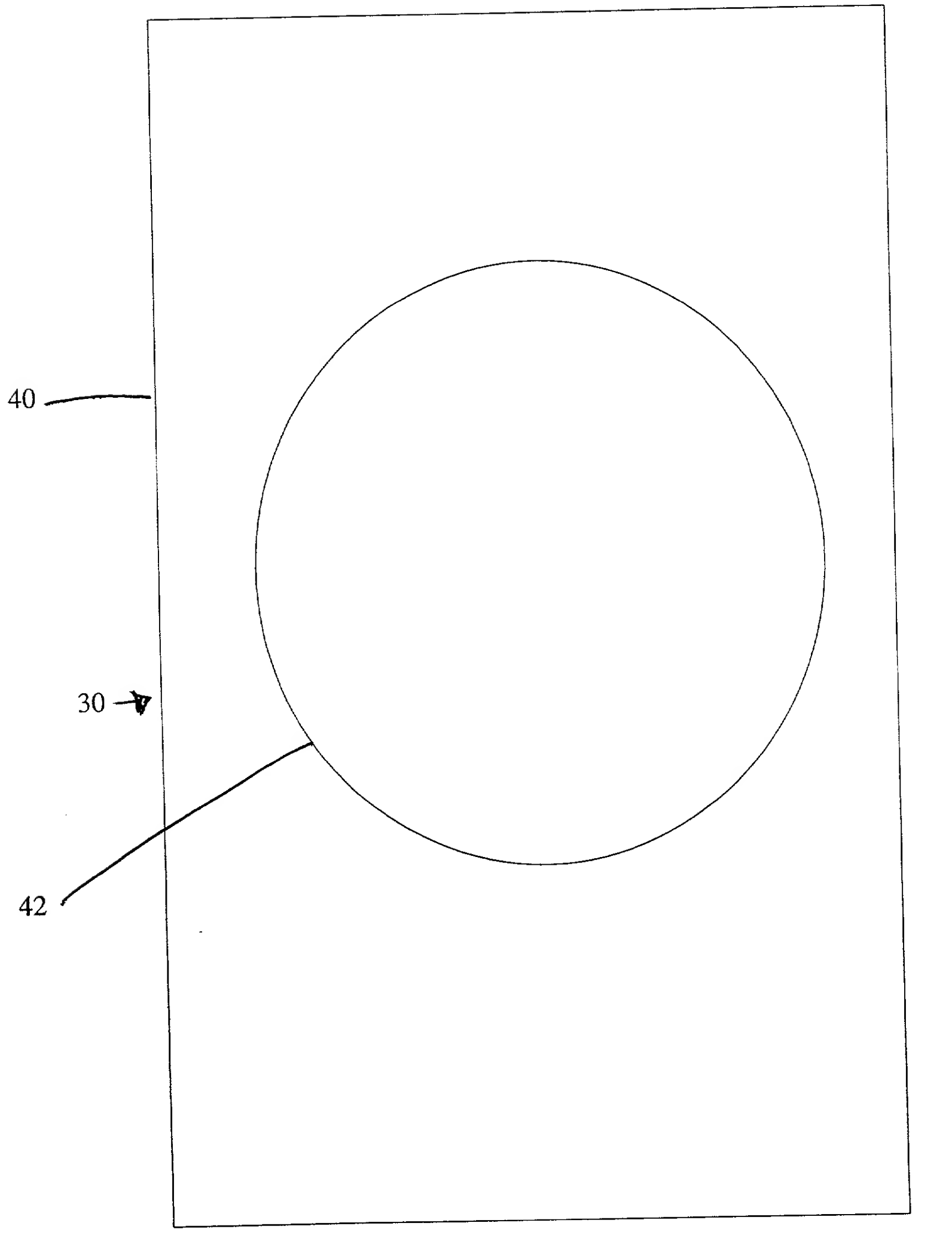

FIGURE 3

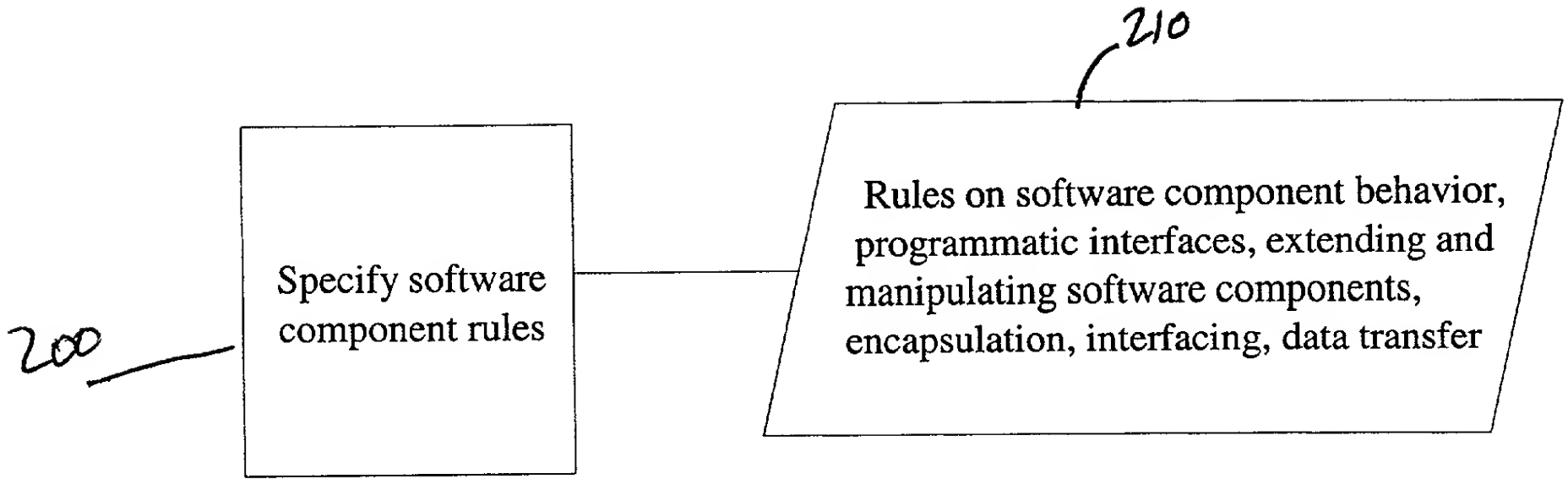
200
Specify software component rules
210
Rules on software component behavior, programmatic interfaces, extending and manipulating software components, encapsulation, interfacing, data transfer
300
Specify tier rules
310
Rules on association, software component manipulation, tier manipulation and extension, framework
400
Specify assembly rules
410
Rules on basic design structures, component dependencies

FIGURE 4

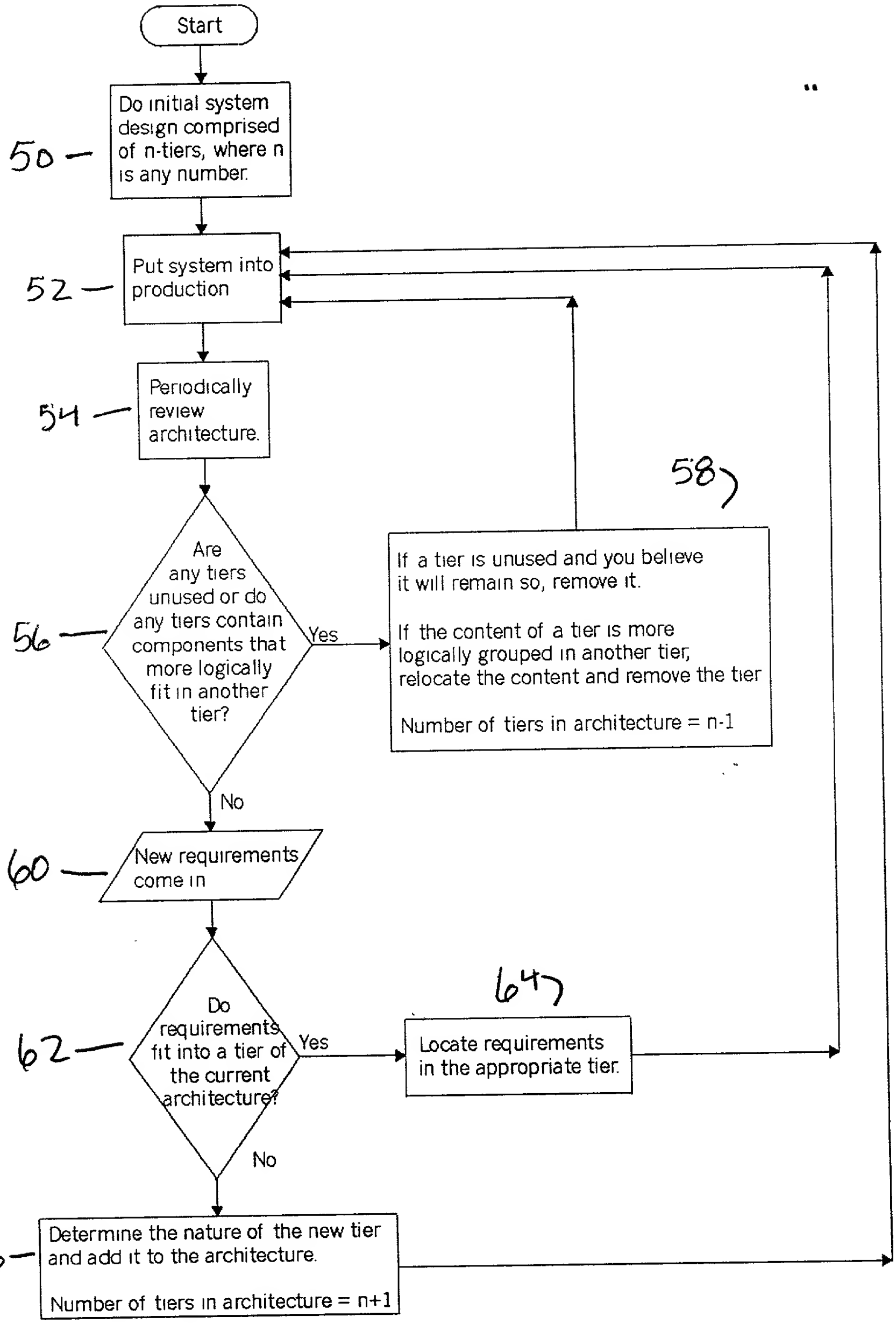
Start
Do initial system design comprised of n-tiers, where n is any number.
50
Put system into production
52
Periodically review architecture.
54
Are any tiers unused or do any tiers contain components that more logically fit in another tier?
56
Yes
No
If a tier is unused and you believe it will remain so, remove it.
If the content of a tier is more logically grouped in another tier, relocate the content and remove the tier
Number of tiers in architecture = n-1
58
New requirements come in
60
Do requirements fit into a tier of the current architecture?
62
Yes
No
Locate requirements in the appropriate tier.
64
Determine the nature of the new tier and add it to the architecture.
Number of tiers in architecture = n+1
66

FIGURE 5

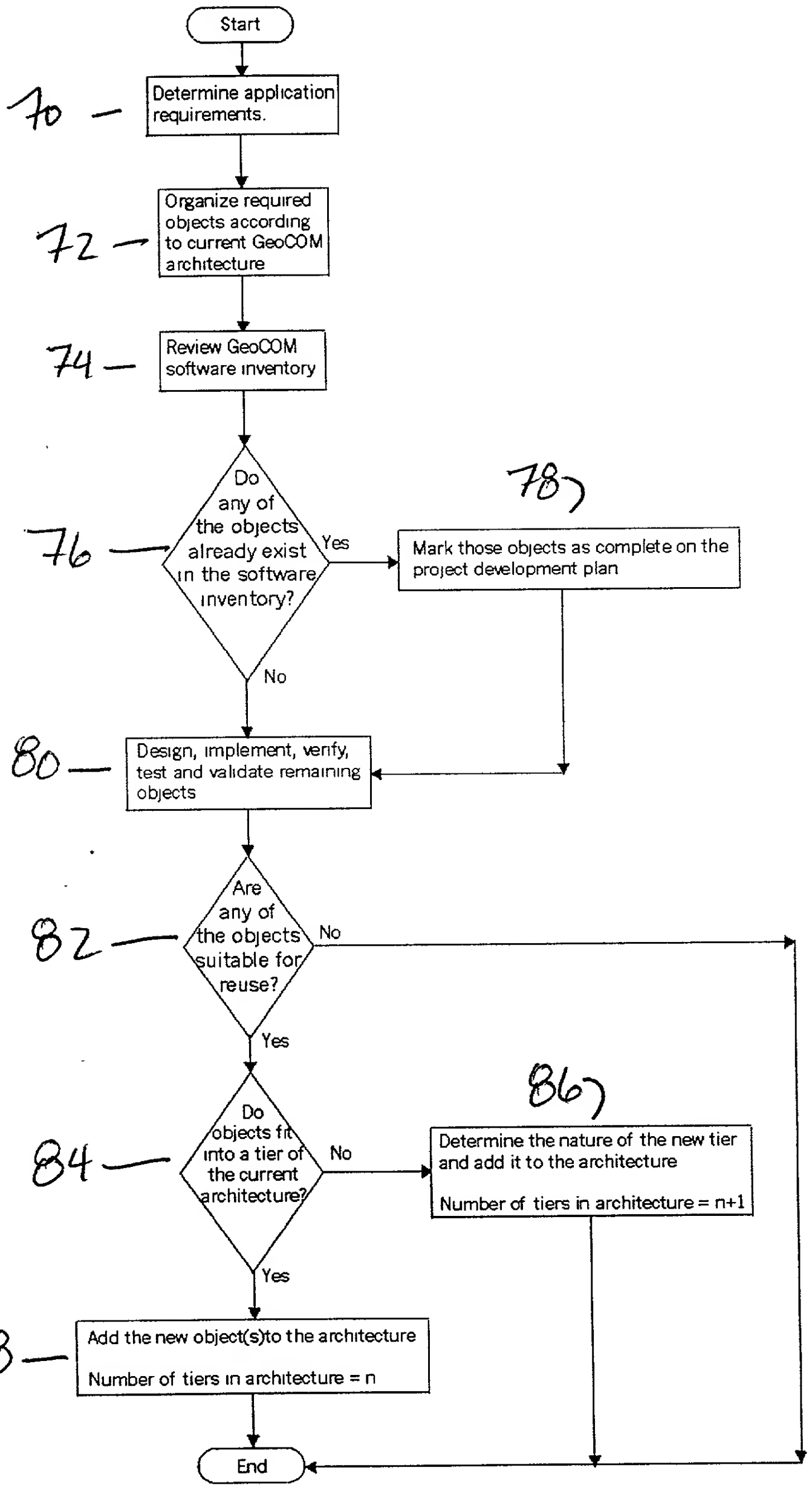
Start
70
Determine application requirements.
72
Organize required objects according to current GeoCOM architecture
74
Review GeoCOM software inventory
76
Do any of the objects already exist in the software inventory?
Yes
78
Mark those objects as complete on the project development plan
No
80
Design, implement, verify, test and validate remaining objects
82
Are any of the objects suitable for reuse?
No
Yes
84
Do objects fit into a tier of the current architecture?
No
86
Determine the nature of the new tier and add it to the architecture
Number of tiers in architecture = n+1
Yes
88
Add the new object(s)to the architecture
Number of tiers in architecture = n
End

FIGURE 6

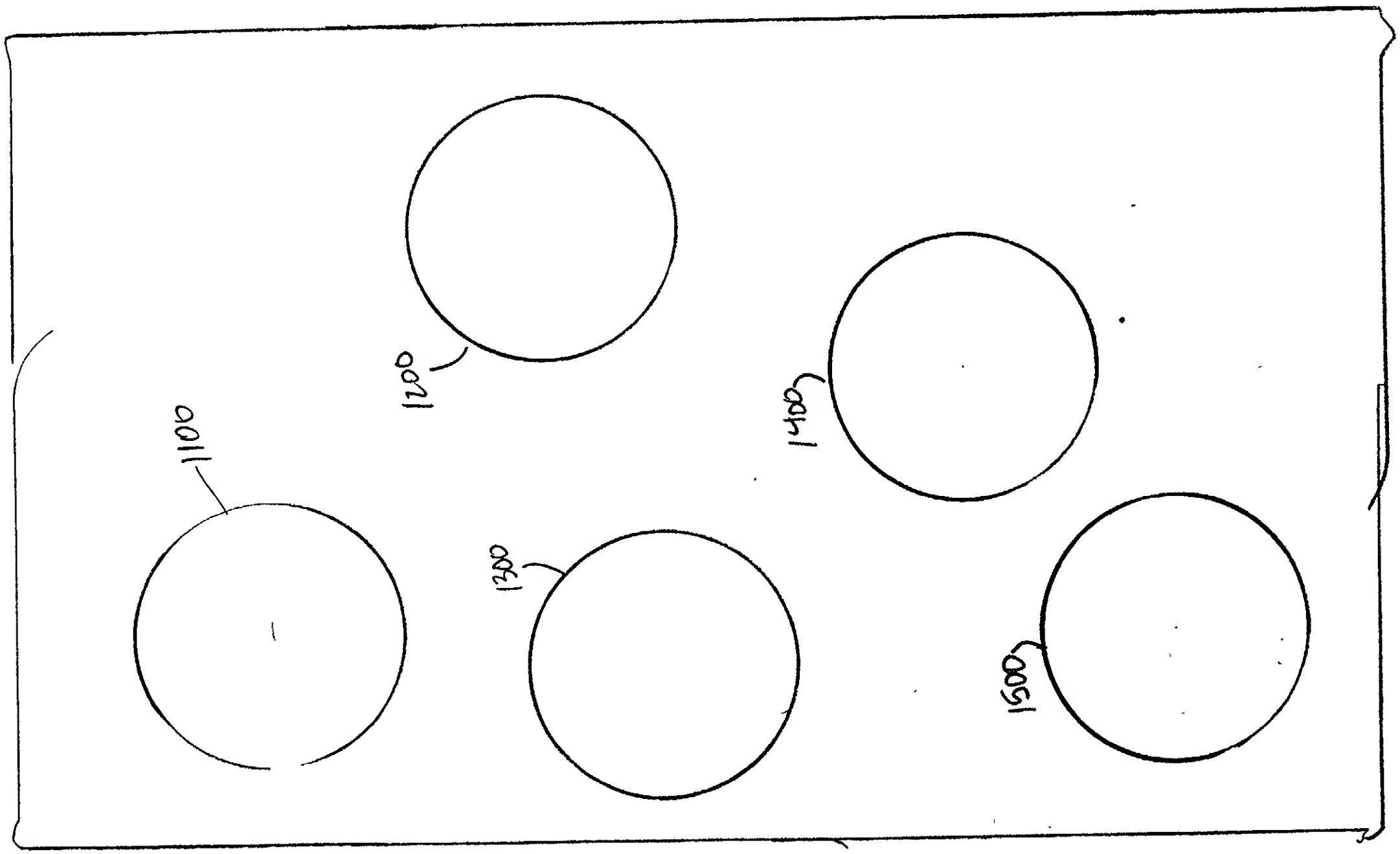

FIG 4

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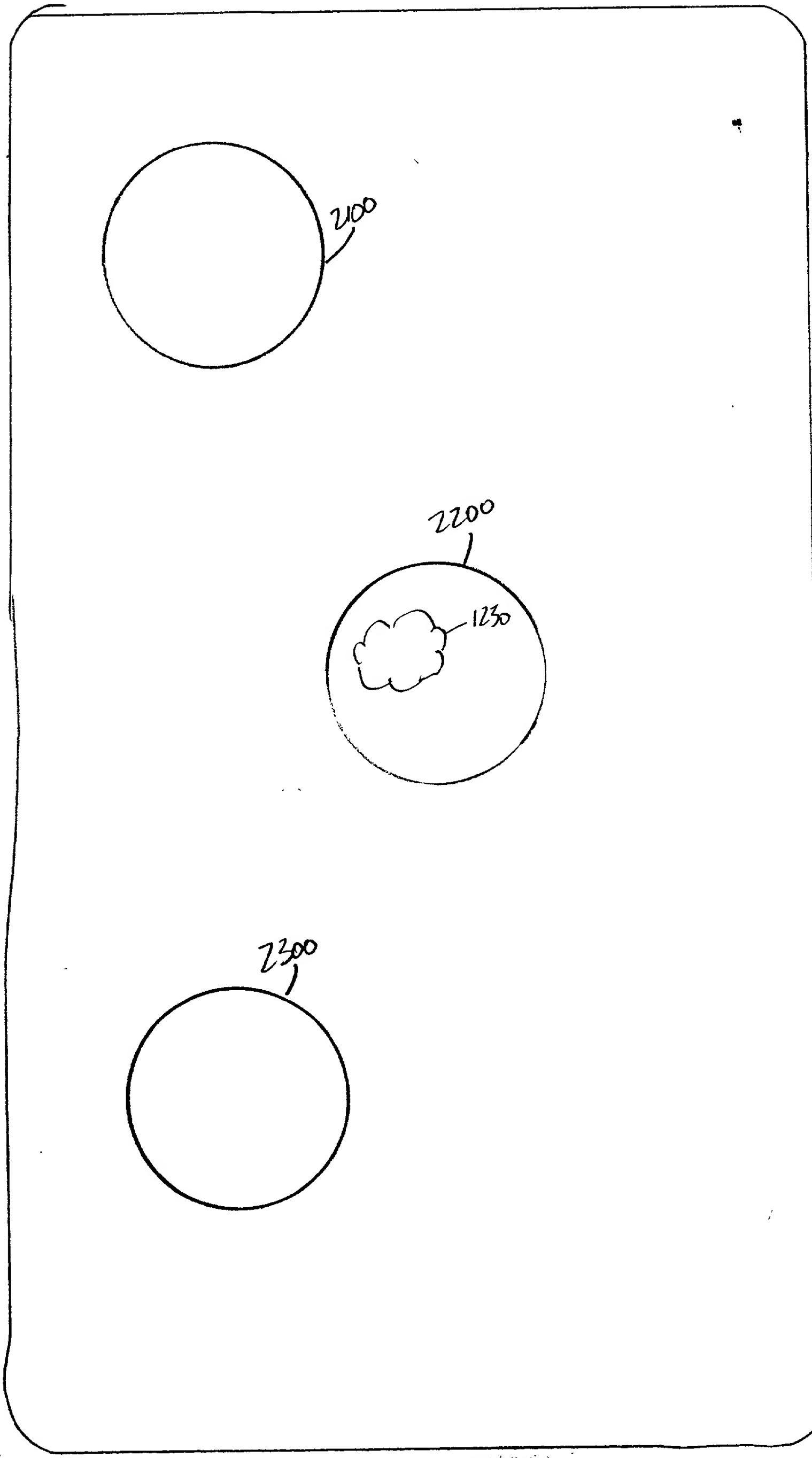
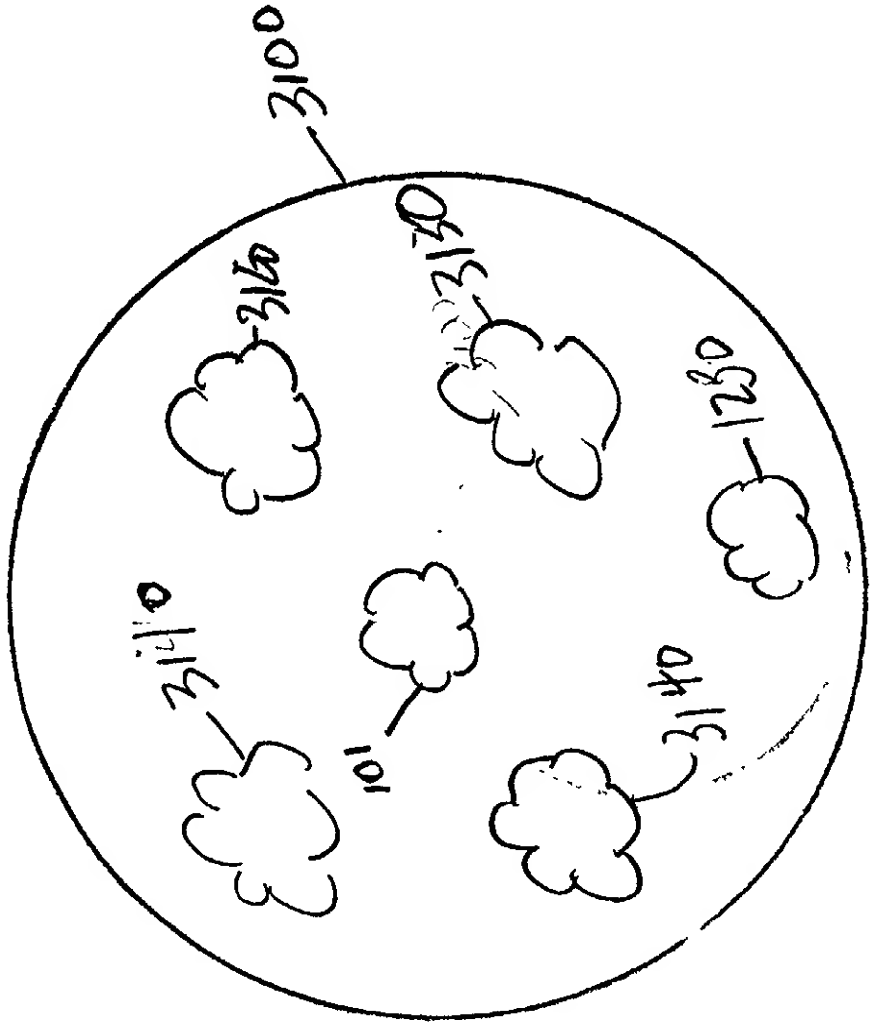


Fig 8



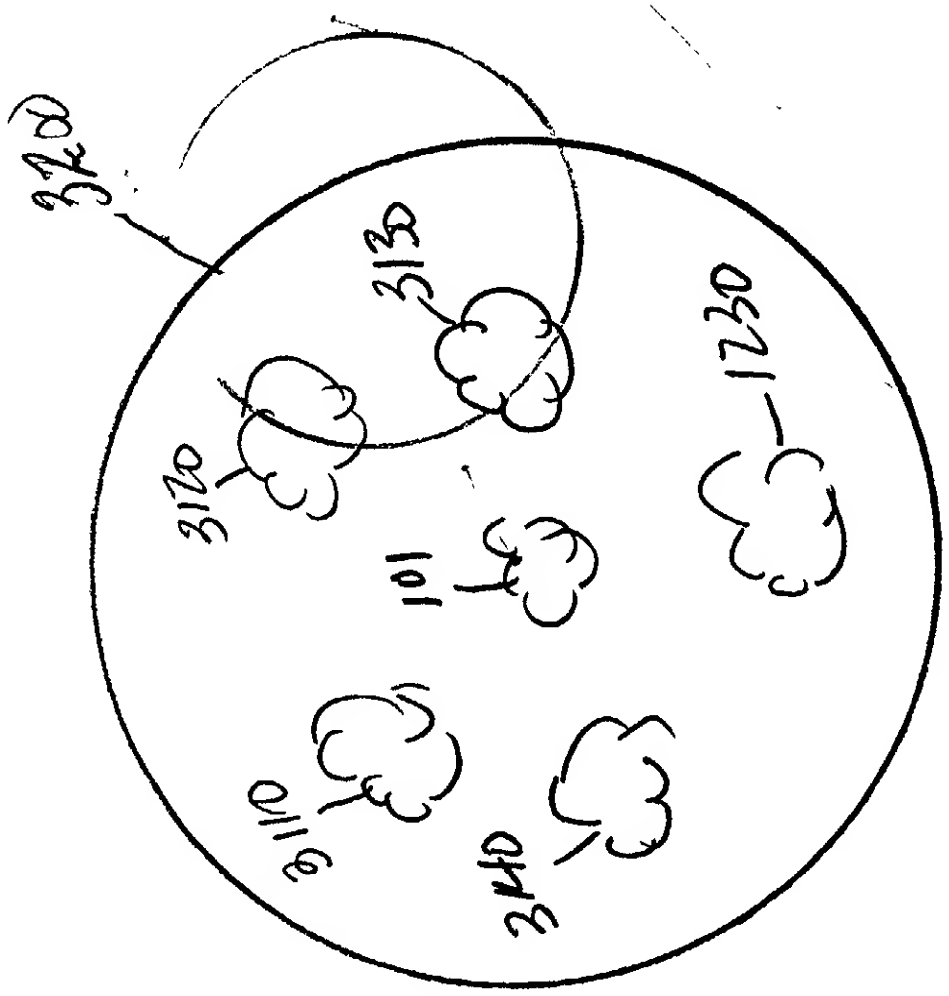


FIG 9

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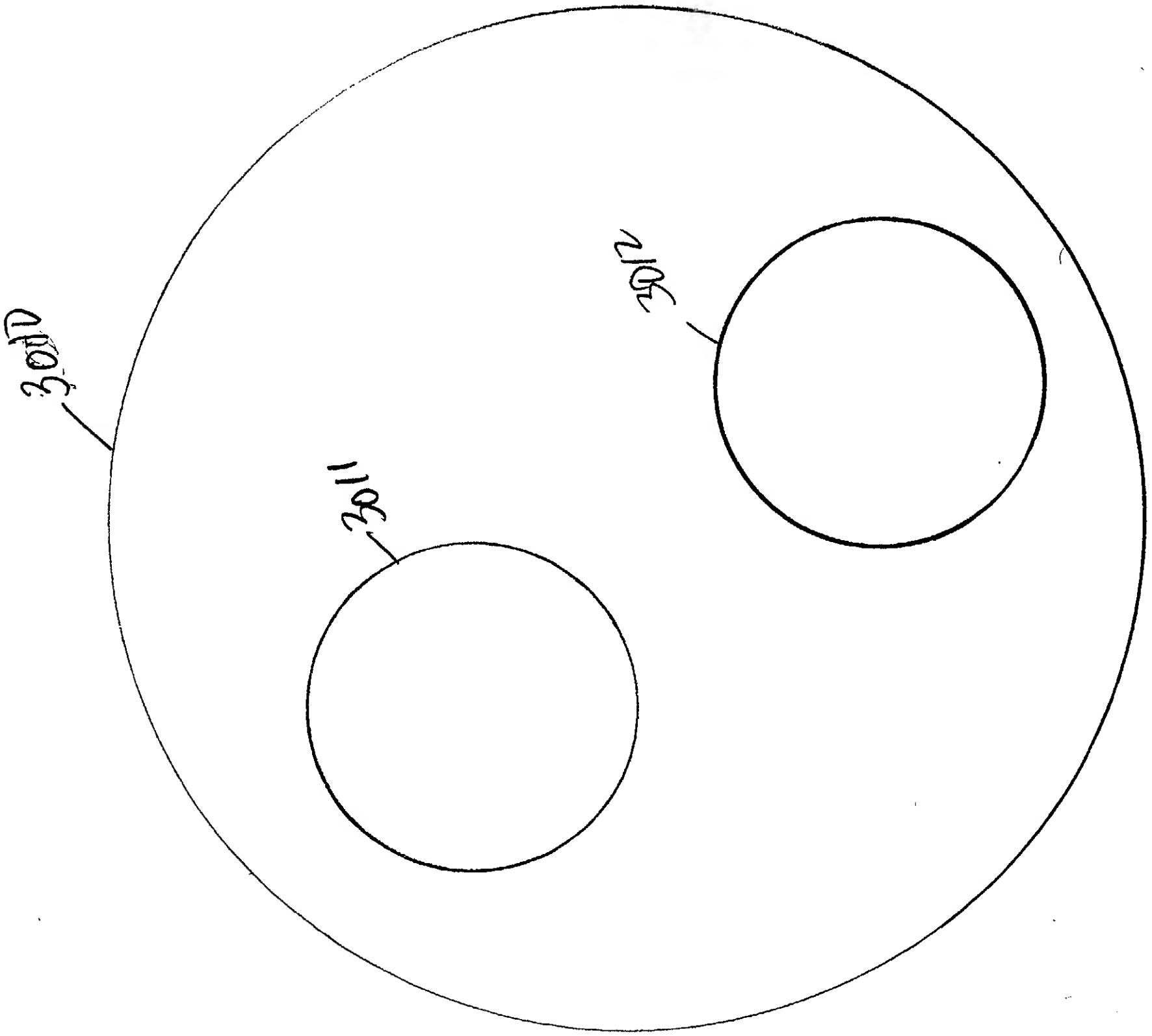

Fig 10

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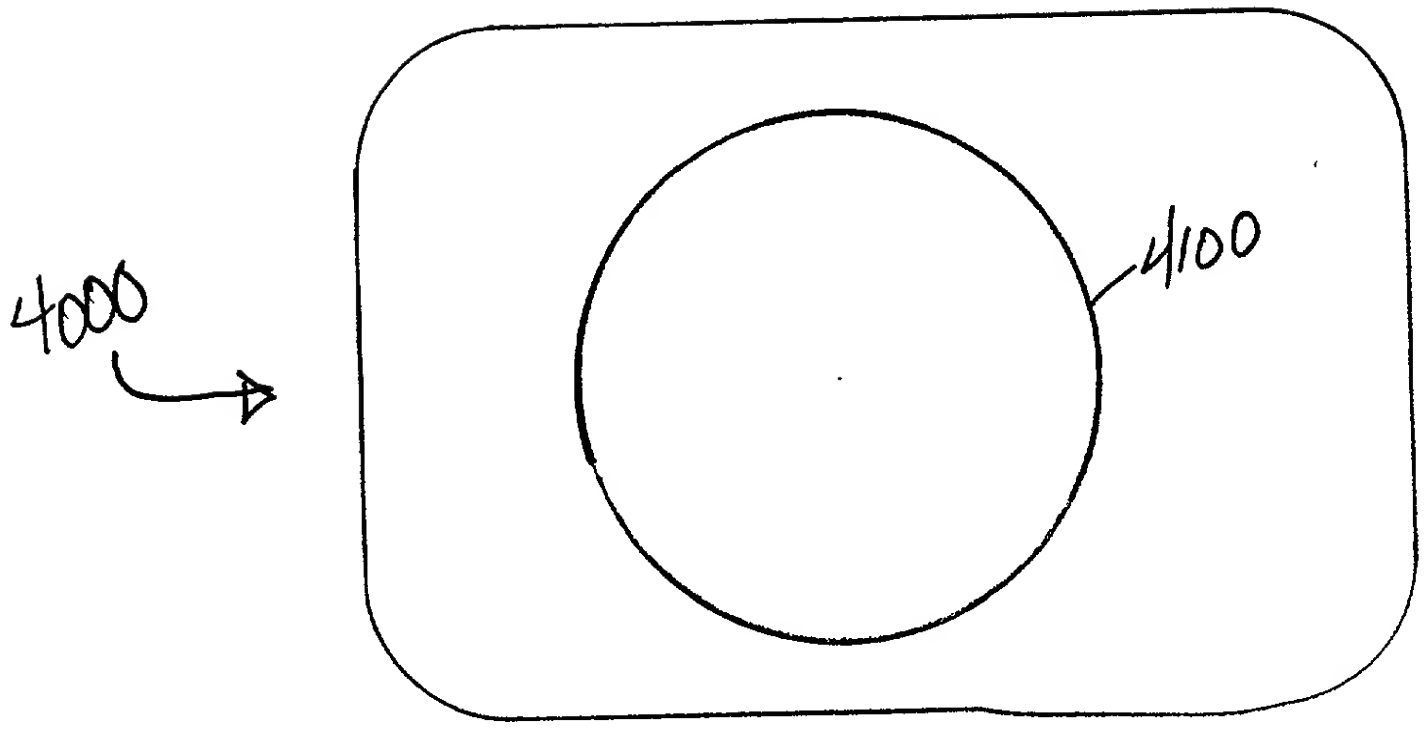

Fig 11

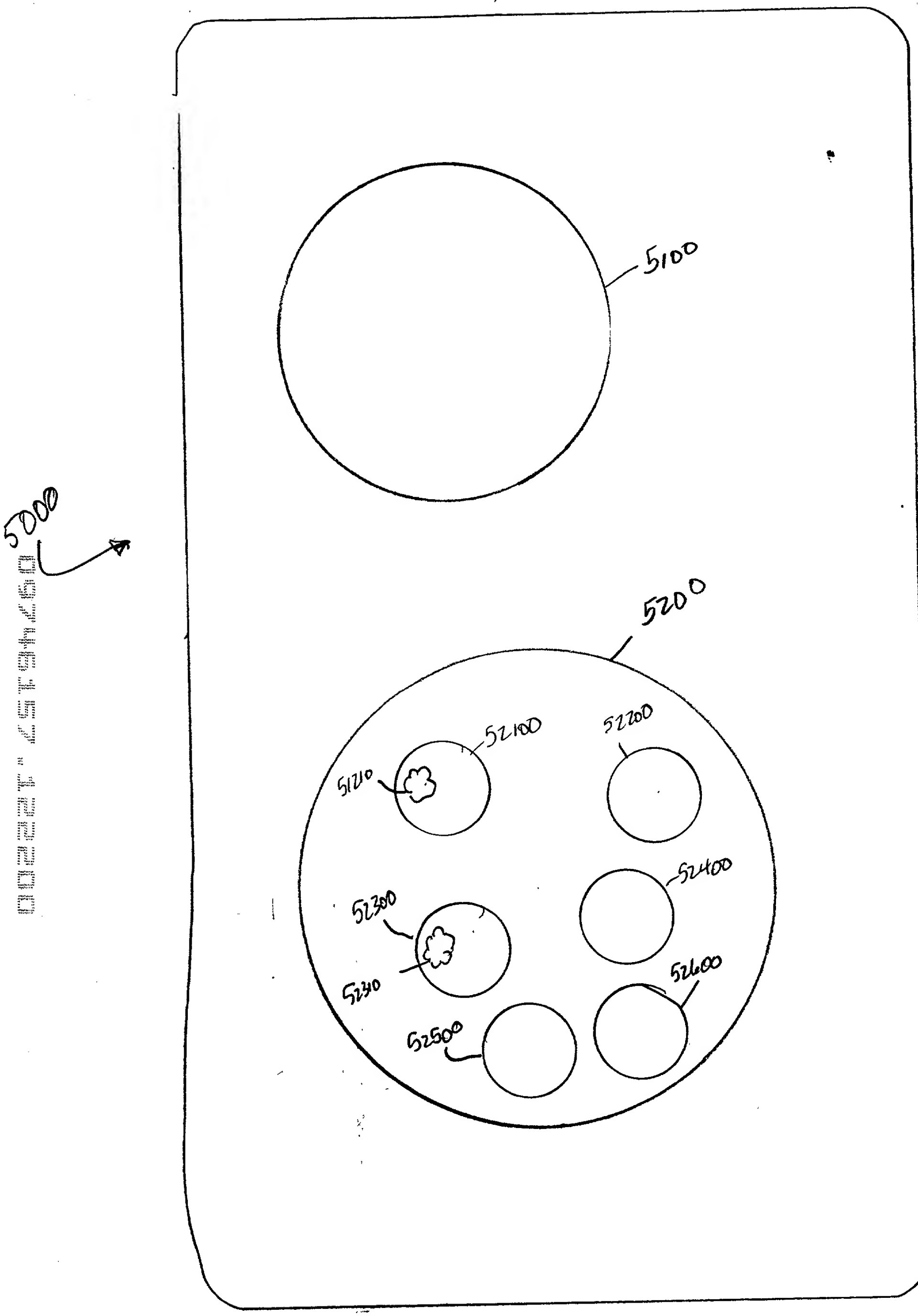
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Fig 12

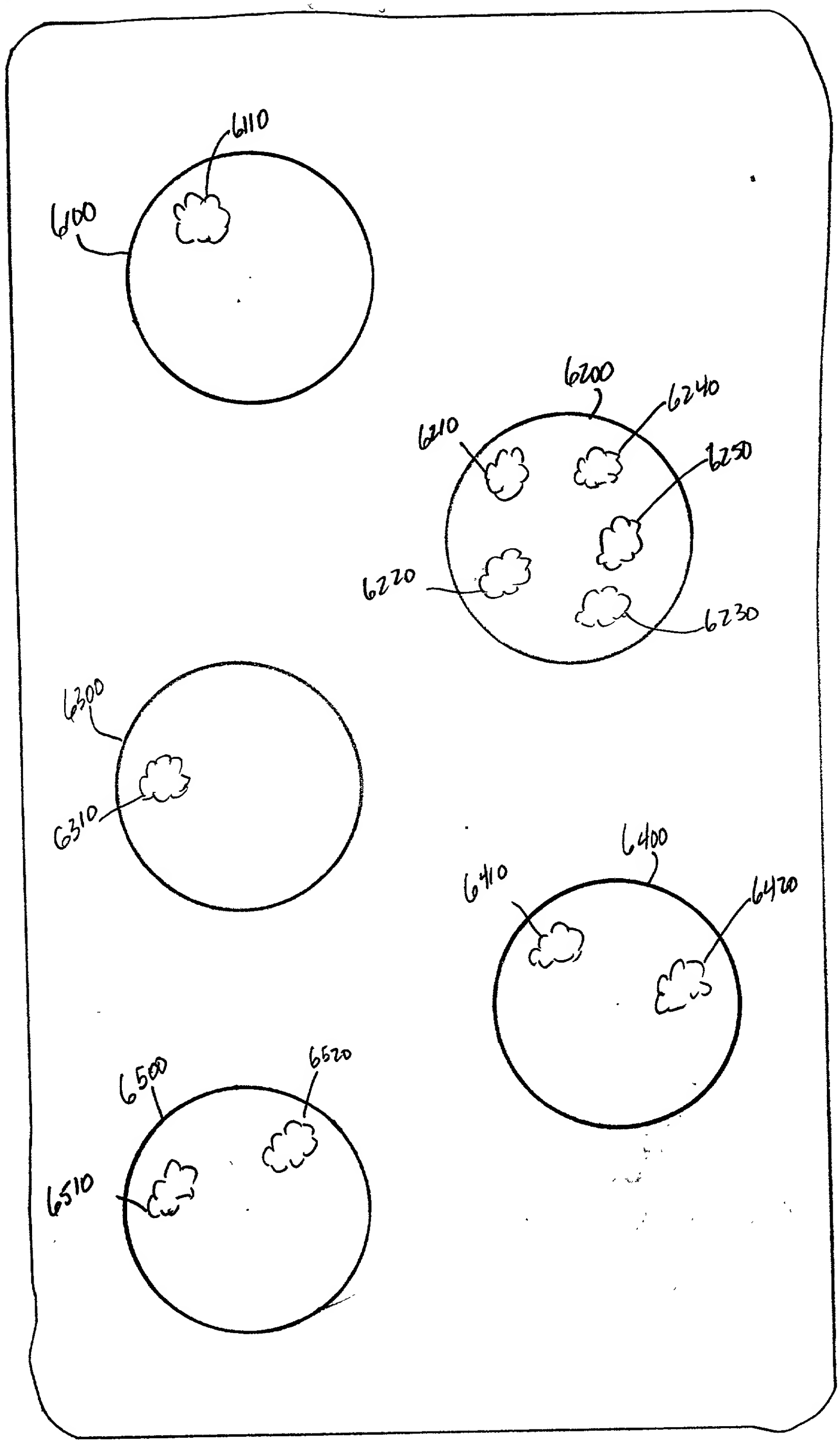
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Fig 13

7000

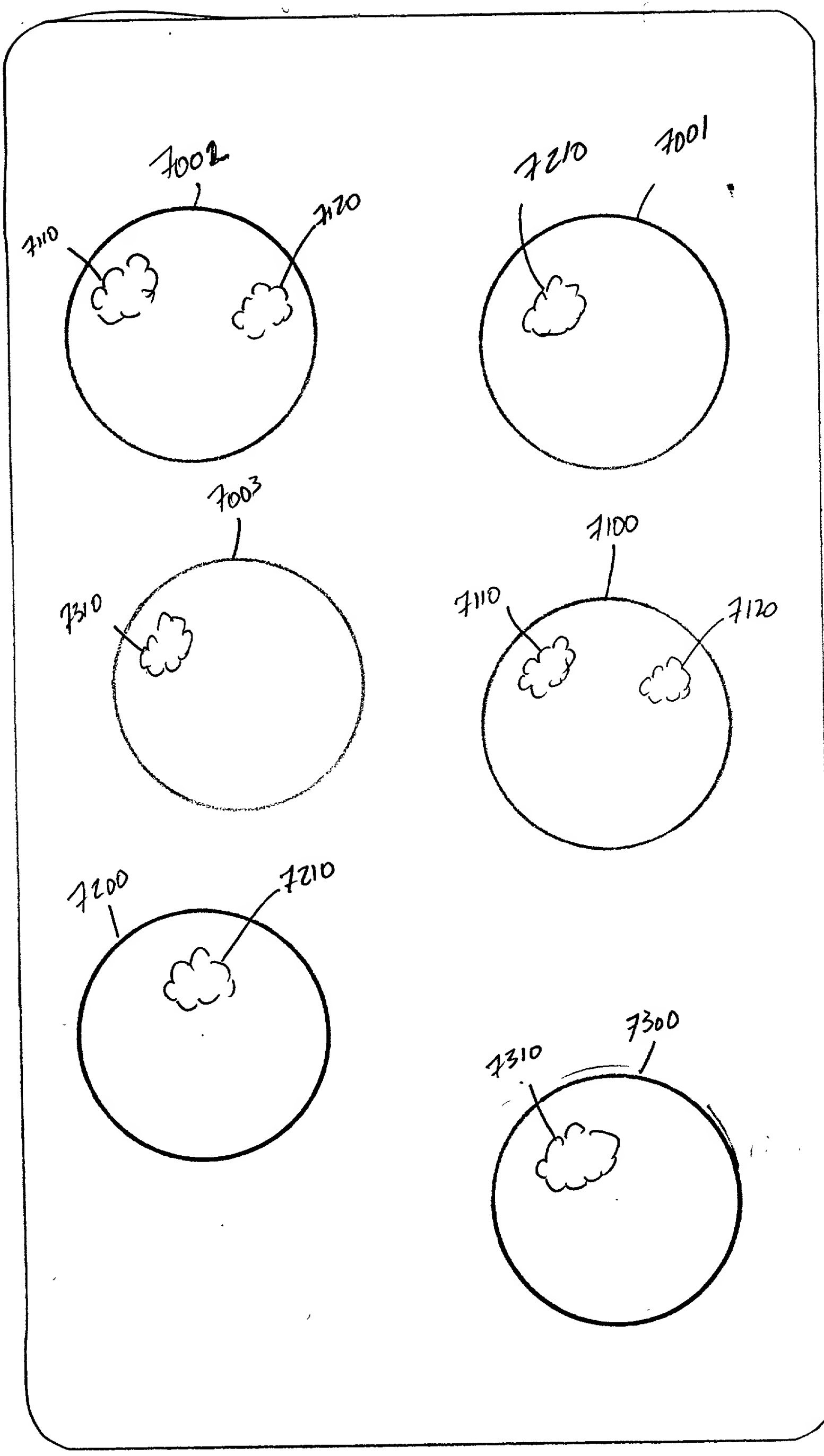
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Fig 14

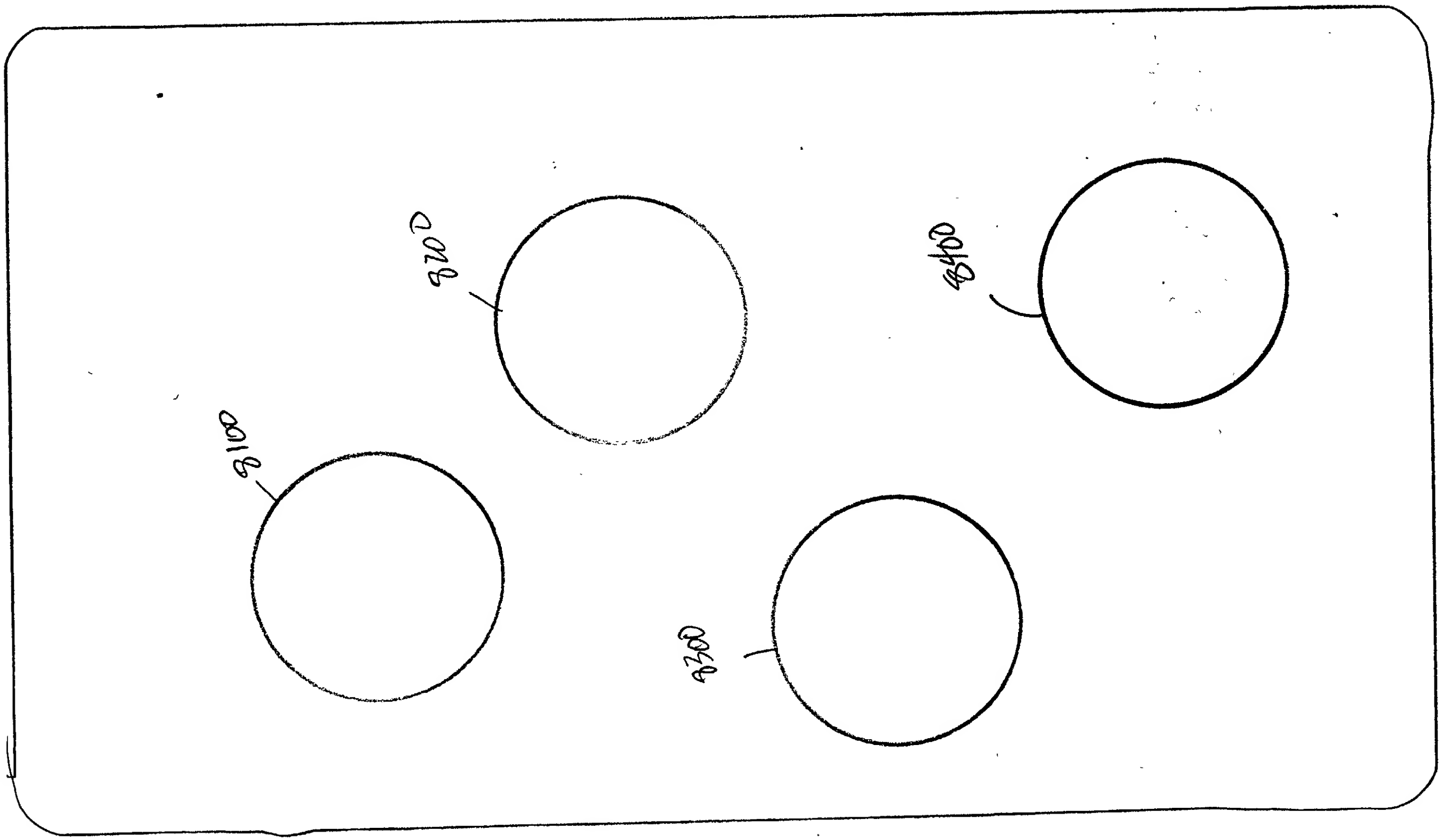

Fig. 5

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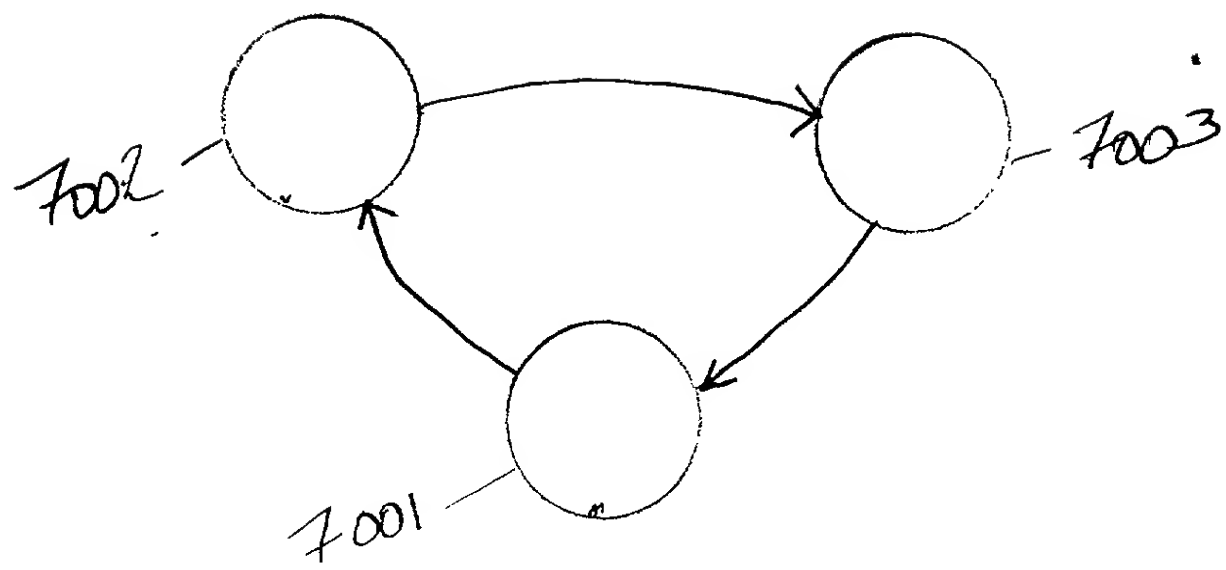

Fig 15

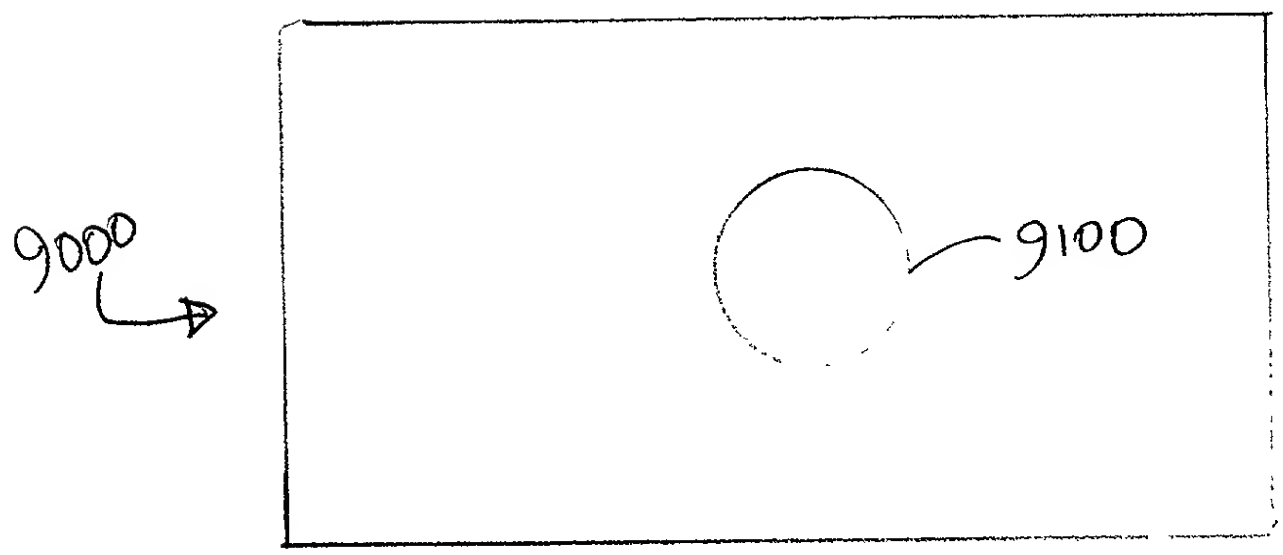

Fig 17

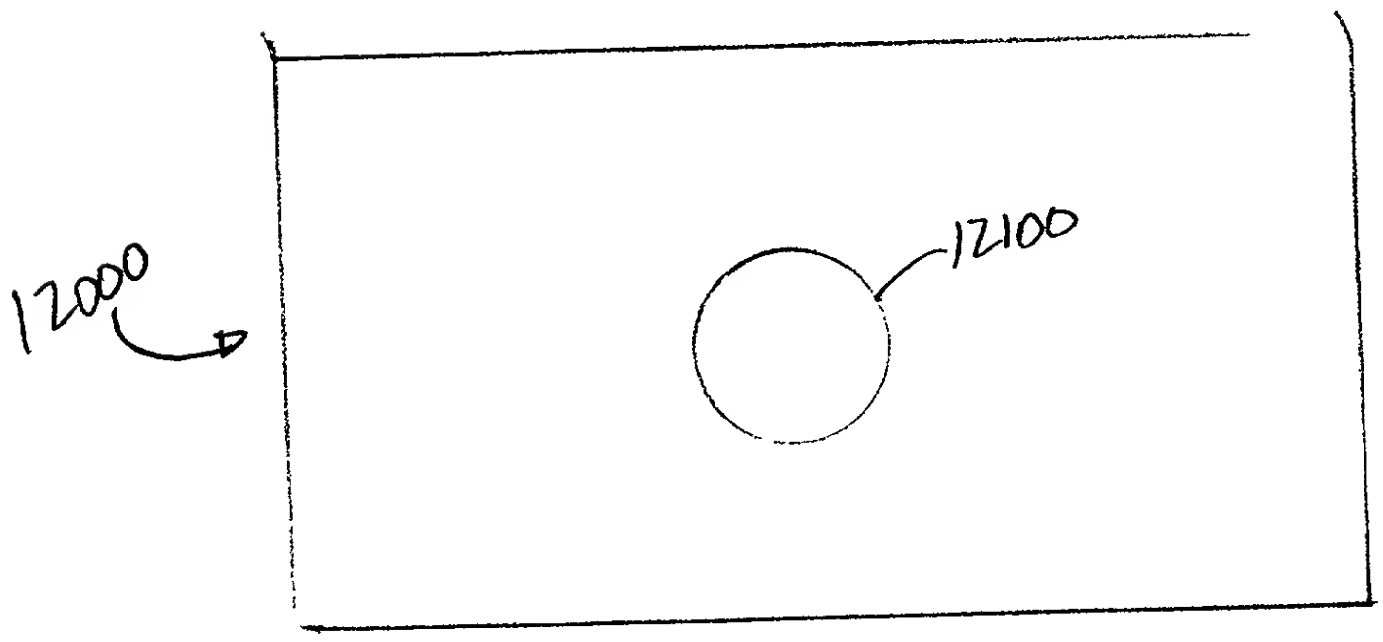

Fig 18

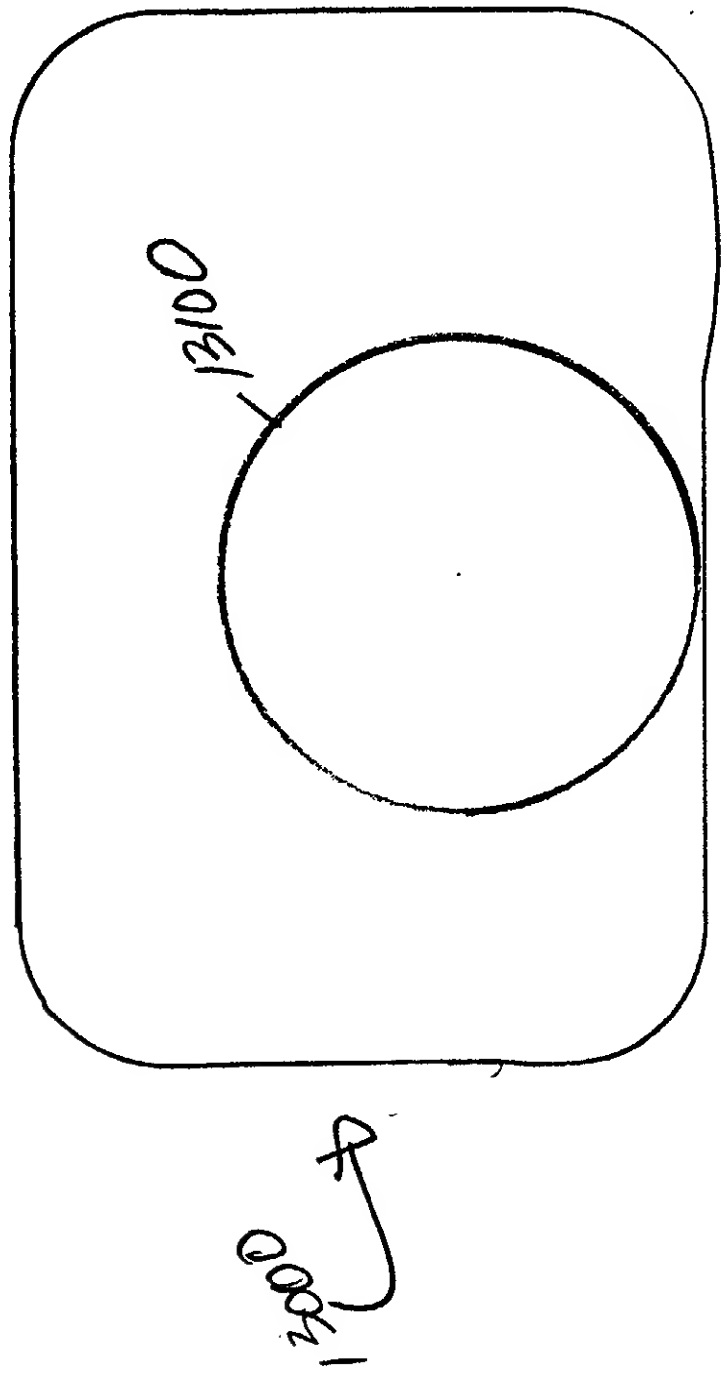

Fig 19

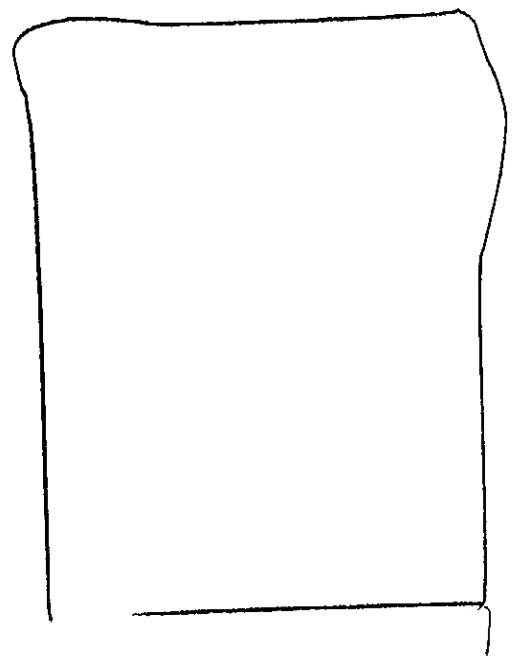

Fig 20

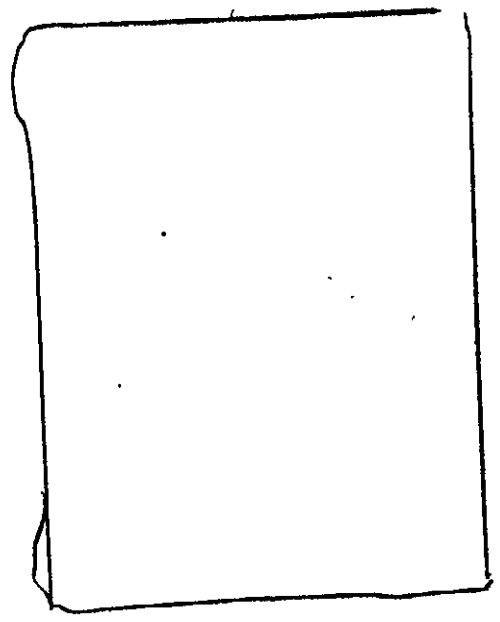

Fig 21

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